### North Dakota Statewide Information Technology Plan 2000 - Agency Plan Summaries

# 405.4 Geological Survey IT Plan Version: B 1

Goals and (	<b>Objectives</b>
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Goals an	d Ot	ojectives		
Goal: 1	Mai	ntain computer and telephone infrastructure		
	Obj	ectives	Timeframe	Accomplishments/Status
	1	Replace our obsolete large format monochrome scanner with a color scanner.	01-03	in planning
	2	Set up server to share specialized geologic and GIS software across our LAN.	99-01	in progress
	3	Upgrade specialized geologic software to network version.	99-01	completed
	4	Replace all PCs every three years and upgrade software as new releases are made	Ongoing	
	5	Maintain telephone system.	Ongoing	
Goal: 2	Trai	n Staff.		
Objectives			Timeframe	Accomplishments/Status
	1	Have consulting company teach an ArcView GIS course to entire staff with an additional one-day course focused on Earth Science applications.	01-03	in planning
	2	Send IT staff to troubleshooting/maintenance classes.	Ongoing	We have sent our shared IT person (Oil & Gas Division and Geological Survey) to one class and plan for additional class(es) in the current biennium and in the 01-03 biennium.
	3	Send staff to office automation classes.	Ongoing	Staff members have attended several different classes this biennium and more are in the future. Our IT staff member may teach some in-house classes.
	4	Send geologists to training class(es) on specialized geologic software.	99-01	Staff has already attended a training class on the Petra program, our specialized geologic program.
	5	Provide database training for database manager.	01-03	in planning
Goal: 3	Expa	and our Digital Field Mapping program.		
	Obj	ectives	Timeframe	Accomplishments/Status
	1	Evaluation of existing digital mapping programs is underway. These programs will be adapted to NDGS needs.	99-01	in progress
	2	After investigating the available options, acquire the appropriate hand-held computer(s), software, and any necessary GPS hardware and software. Continue computer/database programming as needed to implement the digital mapping program.	01-03	in process
	3	Train staff to use GPS hardware and software and handheld computer programs in the field.	99-01	in planning
Goal: 4	Ensu	are NDGS has sufficient IT staff to support agency mission.		
	Obj	ectives	Timeframe	Accomplishments/Status
	1	Hire an additional .5 FTE IT staff to meet our current and expected IT staffing needs. We hired our first IT staff member this biennium but he is shared 50% with the Oil & Gas Division.	01-03	in planning

405.4 Geological Survey Agency Plan Summaries 265

### North Dakota Statewide Information Technology Plan 2000 - Agency Plan Summaries

### 405.4 Geological Survey IT Plan Version: B 1

Timeframe

Accomplishments/Status

Goal: 5	Implement agency database for GIS and normal agency data needs.
	Objectives

Goal: 6

1	Evaluate available databases and purcase the database that meets agency requirements.	99-01	in process
2	Begin initial database design and begin to input data.	99-01	in planning
3	Set up a database server.	99-01	in process
Acqu	ire specialized geologic software for staff.		
Obje	ctives	Timeframe	Accomplishments/Status
Obje	ctives  Evaluate and acquire specialized oil well core description software and appropriate computer.	<b>Timeframe</b> 01-03	Accomplishments/Status in planning

Ac	tivity	Priori	ty Activity Type	Start Date	End Date	99-01	01-03	03-05
1	Local Area Network	1	Maintenance/Base	Ongo	oing			
	The Geological Survey has three offices, two in Bismarck and a satellite office in Grand Forks. All three offices are on the state network. The main Bismarck office and our Heritage Center office are through ITD while the Grand Forks office is through UND. Geological Survey computers can be grouped into two functions, GIS and administrative. We have 26 workstations, 1 plotter, and 9 printers in both Bismarck offices and 3 workstations, 1 plotter, and 3 printers in Grand Forks. Each workstation has office automation software. Two of the workstations have our GIS software, Arc/Info, on them. We are setting up one server to share specialized geologic software and ArcView GIS software between staff members and to act as a backup email server if necessary.				IT PLAN ESTIMATED COST BASE BUDGET REQUEST OPTIONAL BUDGET REQUEST BUDGET NONAPPROPRIATED	\$226,620	\$299,365 \$234,500 \$62,185 \$2,680	\$315,000
Ac	tivity	Priori	ty Activity Type	Start Date	Date	99-01	01-03	03-05
2	Staff Training	2	Maintenance/Base	Ongo	ping			
	The Geological Survey will continue to send staff increase our training budget next biennium because need to send other, non-IT personnel to training claconcepts through specialized training in database a course to be held out-of-state.	either wasses. Ti	re will have new IT staff or warraining will range from basic	ve will computer	IT PLAN ESTIMATED COST BASE BUDGET REQUEST OPTIONAL BUDGET REQUEST BUDGET NONAPPROPRIATED	\$2,000	\$11,000 \$2,500 \$8,500 \$0	\$12,000

405.4 Geological Survey Agency Plan Summaries 266

## North Dakota Statewide Information Technology Plan 2000 - Agency Plan Summaries

405.4 Geological Survey					IT Plan	Version: B 1
Activity	Priority Activity Type	Start Date	End Date	99-01	01-03	03-05
3 Digital Mapping	3 Maintenance/Base	Ongo	oing			
Fully implement a digital field-mapping prog field-mapping integrates GPS data with field geologic descriptions, entering both directly i uploaded and integrated into a larger database GIS and other computer software. The major use with hand-held computers in the field.	geology by collecting both GPS location to a computer. The field computer dat back in the main office where it can be	n and the ca is c used with a g forms for	IT PLAN ESTIMATED COST BASE BUDGET REQUEST OPTIONAL BUDGET REQUEST BUDGET NONAPPROPRIATED	\$3,500	\$15,500 \$7,500 \$8,000 \$0	\$16,000
Activity	Priority Activity Type	Start Date	End Date	99-01	01-03	03-05
4 Hire IT Staff	4 New Initiative	07/200	01 07/2003			
Hire an additional .5 FTE IT personnel to incomembers are required to conduct many agency that will increase our need for IT personnel. You and projected IT staffing needs.	y IT functions and we plan several new	programs	IT PLAN ESTIMATED COST BASE BUDGET REQUEST OPTIONAL BUDGET REQUEST BUDGET NONAPPROPRIATED	\$1,100	\$33,559 \$0 \$33,559 \$0	\$0
Justification:  To fill most of our IT needs minimizing the I' Having non-IT staff performing IT duties reduand is less efficient. Our present IT staff is on staffing is inadequate for our current needs an staff.  Impact on other activities: Productivity of core functions will increase.	T T <b>End</b>					
Activity	Priority Activity Type	Date	Date	99-01	01-03	03-05
5 Telephone  Maintain telephone services. Services include from outside ITD.	5 Maintenance/Base es four cellular telephones which are co	Ongo	oing IT PLAN ESTIMATED COST BASE BUDGET REQUEST OPTIONAL BUDGET REQUEST BUDGET NONAPPROPRIATED	\$26,350	\$28,130 \$26,090 \$1,440 \$600	\$32,000
Total Agency			IT PLAN ESTIMATED COST BASE BUDGET REQUEST OPTIONAL BUDGET REQUEST	\$259,570	\$387,554 \$270,590 \$113,684	\$375,000
			BUDGET NONAPPROPRIATED		\$3,280	

405.4 Geological Survey Agency Plan Summaries 267